

## ABSTRACT

Disclosed are methods for detecting an acute myocardial infarction (i.e., a heart attack) at the earliest possible time and promptly warning the patient that he should immediately seek medical care. The present invention includes an implantable electronic system that can sense a change in the patient's electrogram that is indicative of a heart attack. If a heart attack is sensed, the device would then cause an implantable and/or externally located alarm to be actuated to warn the patient of his condition and a medical practitioner at a remote diagnostic center would receive the patient's electrogram for analysis. The patient or a caretaker would then be informed to self-inject medication through a subcutaneous, pass-through drug port that can be a separate device or integrated into the implanted device that is designed for the early detection of a heart attack. The methods of the present invention include determining if a human patient is likely to have a heart attack and, if he is, then implanting within that patient a device that can sense when a heart attack occurs and alarm the patient to take appropriate actions if a heart attack does occur.

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